

## FHDK 14P5101

Diffuse sensors with background suppression - standard

Article number: 11001166

### Overview

- background suppression
- 20 ... 350 mm
- pulsed red LED
- PNP
- mechanical, 10 turn
- cable 4 pin, 2 m
- -25 ... 65 °C
- IP 67



Picture similar



### Technical data

#### General data

|                                     |                          |
|-------------------------------------|--------------------------|
| Type                                | Background suppression   |
| Light source                        | Pulsed red LED           |
| Sensing distance Tw                 | 20 ... 350 mm            |
| Sensing range Tb (at Tw max.)       | 20 ... 350 mm            |
| Sensing range Tb (at Tw min.)       | 5 ... 20 mm              |
| Alignment / soiled lens indicator   | Flashing light indicator |
| Light indicator                     | LED yellow               |
| Sensing distance adjustment         | Mechanical, 10 turn      |
| Wave length                         | 660 nm                   |
| Suppression of reciprocal influence | Yes                      |

#### Electrical data

|                                    |               |
|------------------------------------|---------------|
| Response time / release time       | < 1 ms        |
| Voltage supply range +Vs           | 10 ... 30 VDC |
| Current consumption max. (no load) | 30 mA         |

#### Electrical data

|                             |                      |
|-----------------------------|----------------------|
| Current consumption typ.    | 25 mA                |
| Voltage drop Vd             | < 1.8 VDC            |
| Output function             | Light / dark operate |
| Output circuit              | PNP                  |
| Output current              | < 100 mA             |
| Short circuit protection    | Yes                  |
| Reverse polarity protection | Yes                  |

#### Mechanical data

|                  |                     |
|------------------|---------------------|
| Width / diameter | 14.8 mm             |
| Height / length  | 43 mm               |
| Depth            | 32.7 mm             |
| Type             | Rectangular         |
| Housing material | Plastic (ASA, MABS) |
| Front (optics)   | PMMA                |
| Connection types | Cable 4 pin, 2 m    |

#### Ambient conditions

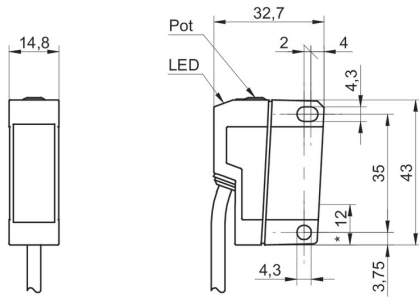
|                       |                |
|-----------------------|----------------|
| Protection class      | IP 67          |
| Operating temperature | -25 ... +65 °C |

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## Dimension drawing



- \* emitter axis

## Connection diagram

